

CS 3204: What is it about?

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Instructor Information

- **Instructor:**
 - Dr. Srinidhi Varadarajan (srinidhi@cs.vt.edu)
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 - Office Hours:
 - 10 – 12 Tu, Th
- **GTA**
 - Yuxin Chen (yuchen@csgrad.cs.vt.edu)
 - Office Hours: McB 133 (TBA)
- **Electronic Resources:**
 - Website: <http://courses.cs.vt.edu/~cs3204>
 - Electronic Discussion: forum.cs.vt.edu

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Goals

- Introduce the basics of operating systems both from a theoretical as well an implementation standpoint.
- Foster the ability to understand design issues and trade-offs in operating systems.

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Means

- Traditional textbook model
- Class discussion
- Projects

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Topics

- Basic OS concepts: timesharing, multiprogramming etc.
- OS Usage: Resources, Processes, Threads
- OS Organization
- Computer Organization
- Device Management
- Process Management and Scheduling
- Synchronization
- Deadlock Detection and Recovery
- Virtual Memory and Memory Management

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Prerequisites

- CS Major/Minor: CS 2604, with grade C or better.
- CpE Major: CS 2604, with grade C- or better. Should also have passed Introduction to Computer Engineering
- Strong programming ability.
- Ability to undertake substantial independent design projects a.k.a this is not an “light load” course.

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Resources

- **Required Text:**
 - *Operating Systems: A Modern Perspective*, 2nd Edition, by Gary Nutt, Addison Wesley, 2001, ISBN: 0201741962.
- **References:**
 - *Modern Operating Systems*, Second Edition, by Andrew S. Tannenbaum, Prentice Hall, 2001. ISBN 0-13-031358-0

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Grading

Quizzes	50
Homework	100
Midterm	150
5 Projects	500
Final Exam	150

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